TOTAL CYANIDE DISTILLATION

SM 4500-CN-C-1999 (2011)

applicable requirements of SM 1020 and SM 4020.	Certified or	Accredited laborat	torie	s usii	ng tnis	method are assessed to	
Facility Name: Analyst Name: In				VELAP ID			
			_ Inspection Date				
Relevant Aspect of Standards		Method Reference	Υ				
Pecords Examined: SOP Number/ Revision/ Date Analyst:							
Sample ID: Date of Sample Preparation:			Date of Analysis:				
 For nonpotable water, were samples cooled, ≤6 °C adjusted to pH >10 with NaOH, and reducing agen if oxidizer present (such as sodium thiosulfate if rechlorine is present or H₂O₂ if sulfur compounds pre 	nt added sidual	40CFR136.3 Table 1I					
2) For drinking water, were samples cooled, ≤6 °C an adjusted to pH >12 with NaOH?	nd (CFR 141.23 k(2), EPA 815-R-05- 004					
3) For nonpotable water or drinking water, were samp analyzed within 14 days?	ples	CFR 136.3 Table 1I, CFR 141.23 k(2)					
4) Was a 500 mL sample aliquot (or diluted sample if CN/L) added to a 1 liter boiling flask?	> 10 mg	4.a					
5) Was 10mL of 1N NaOH solution added to the gas scrubber?		4.a					
6) When S ²⁻ generation from the distilling flask was anticipated, was 50 or more mg of powdered PbC0 to the absorber solution?	O₃ added	4.a					
7) Was suction set so that at least 1 air bubble per se entered the boiling flask and maintained throughou reaction? ("If this air rate does not prevent sample in the delivery tube, increase air-flow rate to 2 air bubbles/s.")	ut the	4.a					
8) Was 2g sulfamic acid added through the air inlet to washed down with DI water?	ube and	4.b					
Was 50mL 1+1 sulfuric acid added through the air tube, rinsed with DI water, and air then allowed to boiling flask contents for 3 minutes? (And optionall of MgCl2 is added)	mix	4.c					
10) Was mixture heated with rapid boiling and refluxed least 1 hour (rate of 40-50 drops/min from condens		4.d					
11) Was heating discontinued after refluxing but air flo- continued for 15 minutes prior to absorption solution removal?		4.d					
12) Was solution transferred to a 250 mL volumetric fla diluted to volume with distilled water, and mixed?	ask,	4.d					
Notes/Comments:	·			•			